





# **Feasibility Study**

- Initiated 1997 \$ 6 Million
- Two Scope Changes by Sponsor
- Additional Ship Simulation and Environmental Surveys
- Economic Updates
- Estimated Completion 2010

**PORT EVERGLADES** 

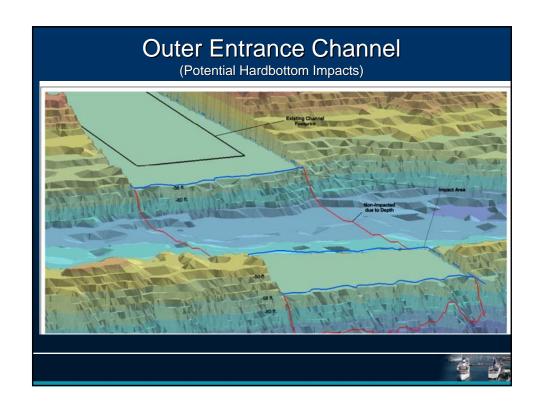


### **Problems and Opportunities**

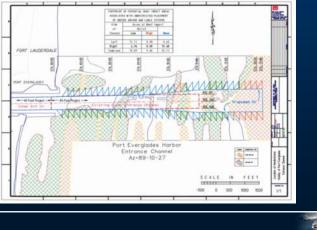
- Strong currents in Outer Entrance Channel
- Width restrictions at Widener shoal, Knuckle, and USCG Station
- Southport Access Channel width restrictions
- Turning Notch Dimensions
- Existing channel depths
- Port is berth deficient
- Inefficient distribution of vessel types and sizes

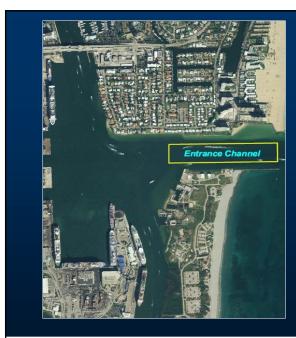






# Anchor/Cable Impacts Consideration for anchor/cable impacts if cutterhead dredge used in traditional manner. 6g07 11.11 2.10 0.63 61g07 6.76 3.38 15.66 Gratitions 15.67 1.36 (0.11





#### **Inner Entrance Channel**

Present Depth:

Design = 42 ft

Present Dimensions:

Channel: 400 ft

Extent: 2,350 ft

Study Depths:

42 – 51 ft

# Inner Entrance Channel to Port Everglades









#### **Main Turning Basin**

Present Depth: Design = 42 ft

Present Dimensions: Extent: ~95 acres

Study Depths: 42 – 51 ft



#### South Turning Basin

Present Depth: Design = 31 ft

Present Dimensions: Extent: ~20 acres

Study Depths: 31 – 45 ft

PORT EVERGLADES ENGINEERING CONSIDERATIONS



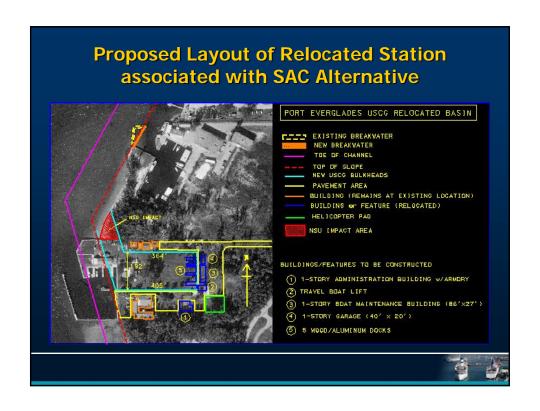
#### Widener

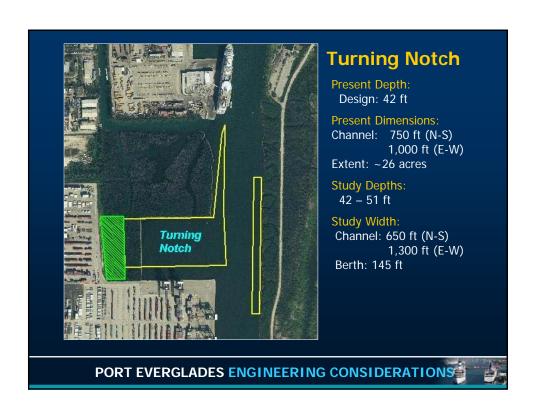
Present Depth:
Approximately 5 ft

Present Dimensions: Extent: ~13 acres

Study Depths: 42 – 51 ft









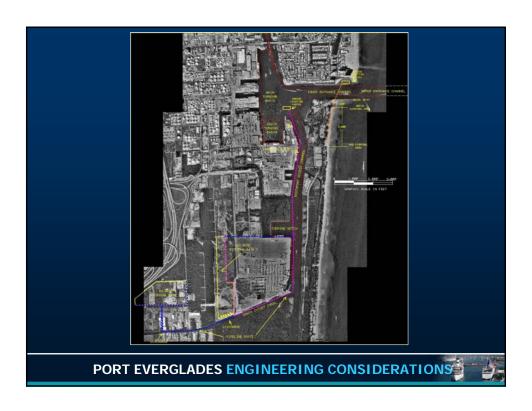
DREDGING VOLUMES - Estimated					
	Inner Channel – 46 feet		Inner Channel – 50 feet		
Component	Untreated Material	Rock (pretreatment)	Untreated Material	Rock (pretreatment)	
OEC (50ft and 54 ft)	378,500	42,000	834,000	93,000	
IEC	169,500	18,500	390,300	44,000	
MTB	390,050	260,050	852,600	568,400	
Widener	888,250	46,800	1,005,000	53,000	
STB (38 ft and 42 ft)	21,000	21,000	78,300	78,300	
SAC	1,300,000	0	1,933,750	0	
TN	939,500	0	1,160,000	0	
DCC (28ft and 32 ft)	1,751,400	194,600	2,034,000	226,000	
Total Cubic Yards	5,837,900	583,350	8,288,450	1,062,700	

Note: Quantities in Cubic Yards and based on Outer Entrance Channel 4 feet deeper than Inner Channel Depths.

## **Disposal Alternatives**

- ODMDS ( distance 4 miles depth 650 ft)
- Beneficial Use
  - > Airport Upland Disposal Site (approximately 64 acres)
  - > Port Upland Disposal Site (approximately 62 acres)
  - > Mitigation (Hardbottom Habitat)
  - > Beach Placement (minimal)





# **Project Schedule**

- Aug 09 Draft Report
- Sep 09 Independent Technical Review
- Oct 09 Issue Resolution Conference
- Dec 09 Draft Feasibility Report to Public, EPR and Agencies
- Sep 10 Project to Civil Works Review Board
- FY 11 & FY 12 Design Phase
- FY 12 Authorization
- FY 13 FY 17 Construction

**PORT EVERGLADES** 

